

8. The process of claim 1 wherein said membrane has a thickness of 5-10 microns.

5 9. The process of claim 1 wherein said membrane is supported.

10. The process of claim 1 wherein said cell is heated to between 800 and 1000C.

10 11. The process of claim 1 wherein said purified hydrogen is separated at the exit of said second side by passing effluent from said second side through a condenser.

15 12. The process of claim 2, wherein said other hydrocarbons are selected from the group consisting of propane, butane, octane and mixtures thereof.